SEQUENCE LISTING

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<110> Hilton, Douglas J.
Nicola, Nicos A.
Farley, Alison
Wilson, Tracy
Zhang, Jian-Guo
Alexander, Warren
Rakar, Steven
Fabri, Louis
Kojima, Tetsuo
Maeda, Masatsugu
Kikuchi, Yasufumi
Nash, Andrew
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- <120> A NOVEL HAEMPOIETIN RECEPTOR AND GENETIC SEQUENCES ENCODING SAME
- <130> DAVIES COLLISON CAVE (CIP)
- <140> 09/037,657
- <141> 1998-03-10
- <150> 08/928,720
- <151> 1997-09-11
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ccc atg ccc gcg ggt cgc ccg ggc ccc gtc gcc caa tcc gcg cgg cgg Met Pro Ala Gly Arg Pro Gly Pro Val Ala Gln Ser Ala Arg Arg 1 5 10 15	168
ccg ccg cgg ccg ctg tcc tcg ctg tgg tcg cct ctg ttg ctc tgt gtc Pro Pro Arg Pro Leu Ser Ser Leu Trp Ser Pro Leu Leu Cys Val 20 25 30	216
ctc ggg gtg cct cgg ggc gga tcg gga gcc cac aca gct gta atc agc Leu Gly Val Pro Arg Gly Gly Ser Gly Ala His Thr Ala Val Ile Ser 35 40 45	264

			•													
	cag Gln															312
tct Ser	ata Ile 65	cat His	gga Gly	gac Asp	aca Thr	cct Pro 70	Gly	gcc Ala	acc Thr	gct Ala	gag Glu 75	ggg Gly	ctc Leu	tac Tyr	tgg Trp	360
acc Thr 80	ctc Leu	aat Asn	ggt Gly	cgc Arg	cgc Arg 85	ctg Leu	ccc Pro	tct Ser	gag Glu	ctg Leu 90	tcc Ser	cgc Arg	ctc Leu	ctt Leu	aac Asn 95	408
acc Thr	tcc Ser	acc Thr	ctg Leu	gcc Ala 100	ctg Leu	gcc Ala	ctg Leu	gct Ala	aac Asn 105	ctt Leu	aat Asn	ggg Gly	tcc Ser	agg Arg 110	cag Gln	456
	tca Ser															504
	ggc Gly														aac Asn	552
	agc Ser 145															600
	ggt Gly															648
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	gtg Val															744
act Thr	ccc Pro	tat Tyr 210	gag Glu	atc Ile	tgg Trp	gtg Val	gaa Glu 215	gcc Ala	acc Thr	aat Asn	cgc Arg	cta Leu 220	ggc Gly	tca Ser	gca Ala	792
aga Arg	tct Ser 225	gat Asp	gtc Val	ctc Leu	aca Thr	ctg Leu 230	gat Asp	gtc Val	ctg Leu	gac Asp	gtg Val 235	gtg Val	acc Thr	acg Thr	gac Asp	840
	cca Pro															888
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Gln	Ala	Lys	Tyr 275	Gln	Ile	Arg	Tyr	Arg 280	Val	Glu	Asp	Ser	Val 285	Asp	Trp	
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														gtg Val		1224
														tac Tyr		1272
														atg Met		1320
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taag	gata	igg c	cato	cctcc	t go	tggg	ftcac	g acc	tgga	aggc	tcac	ctga	aat 1	tggaç	cccct	1422
ctgt	acca	atc t	gggc	caaca	aa ag	jaaac	ctac	caç	gaggo	ctgg	ggca	caat	ga (gctco	cacaa	1482
ccac	agct	tt g	gtco	cacat	g at	ggto	cacac	: ttg	gata	atac	ccca	ıgtgt	gg (gtaag	gttgg	1542
ggta	ttgc	ag g	gcct	ccca	aa ca	atct	cttt	aaa	taaa	ataa	agga	agtto	gtt (caggt	aaaaa	1602
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<223> Description of Unknown Organism: Murine NR6.1

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Ile Tyr Gly Ser Lys Lys Ala Gly Ile Trp Ser Glu Trp Ser His Pro 325 330 Thr Ala Ala Ser Thr Pro Arg Ser Glu Arg Pro Gly Pro Gly Gly Gly 345 Val Cys Glu Pro Arg Gly Gly Glu Pro Ser Ser Gly Pro Val Arg Arg Glu Leu Lys Gln Phe Leu Gly Trp Leu Lys Lys His Ala Tyr Cys Ser Asn Leu Ser Phe Arg Leu Tyr Asp Gln Trp Arg Ala Trp Met Gln Lys 390 395 Ser His Lys Thr Arg Asn Gln Val Leu Pro Ala Lys Leu <210> 14 <211> 1673 <212> DNA <213> Unknown <220> <221> CDS <222> (125)..(1399) <223> Description of Unknown Organism: Murine NR6.2 <400> 14 ggcacgagct tcgctgtccg cgcccagtga cgcgcgtgcg gacccgagcc ccaatctgca 60 ccccgcagac tcgcccccgc cccataccgg cgttgcagtc accgcccgtt gcgcgccacc 120 ccca atg ccc gcg ggt cgc ccg ggc ccc gtc gcc caa tcc gcg cgg cgg Met Pro Ala Gly Arg Pro Gly Pro Val Ala Gln Ser Ala Arg Arg 5 1 ccg ccg cgg ccg ctg tcc tcg ctg tgg tcg cct ctg ttg ctc tgt gtc 217 Pro Pro Arg Pro Leu Ser Ser Leu Trp Ser Pro Leu Leu Cys Val 30 20 ctc ggg gtg cct cgg ggc gga tcg gga gcc cac aca gct gta atc agc 265 Leu Gly Val Pro Arg Gly Gly Ser Gly Ala His Thr Ala Val Ile Ser 35 40 ccc caq qac ccc acc ctt ctc atc ggc tcc tcc ctg caa gct acc tgc 313 Pro Gln Asp Pro Thr Leu Leu Ile Gly Ser Ser Leu Gln Ala Thr Cys 50 tct ata cat gga gac aca cct ggg gcc acc gct gag ggg ctc tac tgg 361 Ser Ile His Gly Asp Thr Pro Gly Ala Thr Ala Glu Gly Leu Tyr Trp 65 70 acc ctc aat ggt cgc cgc ctg ccc tct gag ctg tcc cgc ctc ctt aac 409

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cag Gln	tca Ser	gga Gly	gac Asp 115	aat Asn	ctg Leu	gtg Val	tgt Cys	cac His 120	gcc Ala	cga Arg	gac Asp	ggc Gly	agc Ser 125	att Ile	ctg Leu	505
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	agc Ser 145															601
	ggt Gly															649
	aag Lys															697
	gtg Val															745
	ccc Pro															793
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	agt Ser															937
	gcc Ala															985
	gtg Val															1033
	aag Lys															1081

305	310	315
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ccc acc gct gcc tcc a Pro Thr Ala Ala Ser T 340	acc cct cga agt gag cgc of Thr Pro Arg Ser Glu Arg 1 345	ccg ggc ccg ggc ggc 1177 Pro Gly Pro Gly Gly 350
	egg ggc ggc gag ccc agc s arg Gly Gly Glu Pro Ser s 360	
	tc ctc ggc tgg ctc aag a Phe Leu Gly Trp Leu Lys 1 375	
	egc ctg tac gac cag tgg o arg Leu Tyr Asp Gln Trp A 390	
Lys Ser His Lys Thr A	ga aac cag gac gag ggg a arg Asn Gln Asp Glu Gly 1 05 410	
aga cgg ggt gcg gcg ac Arg Arg Gly Ala Ala A: 420	ga ggt cct gcc ggt taaac rg Gly Pro Ala Gly 425	ctctaa ggataggcca 1419
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ccacatgatg gtcacacttg	gatatacccc agtgtgggta a	aggttggggt attgcagggc 1599
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35 40 45

Gln Asp Pro Thr Leu Leu Ile Gly Ser Ser Leu Gln Ala Thr Cys Ser 50 55 Ile His Gly Asp Thr Pro Gly Ala Thr Ala Glu Gly Leu Tyr Trp Thr Leu Asn Gly Arg Arg Leu Pro Ser Glu Leu Ser Arg Leu Leu Asn Thr Ser Thr Leu Ala Leu Ala Leu Ala Asn Leu Asn Gly Ser Arg Gln Gln Ser Gly Asp Asn Leu Val Cys His Ala Arg Asp Gly Ser Ile Leu Ala Gly Ser Cys Leu Tyr Val Gly Leu Pro Pro Glu Lys Pro Phe Asn Ile Ser Cys Trp Ser Arg Asn Met Lys Asp Leu Thr Cys Arg Trp Thr Pro 150 155 Gly Ala His Gly Glu Thr Phe Leu His Thr Asn Tyr Ser Leu Lys Tyr Lys Leu Arg Trp Tyr Gly Gln Asp Asn Thr Cys Glu Glu Tyr His Thr 185 Val Gly Pro His Ser Cys His Ile Pro Lys Asp Leu Ala Leu Phe Thr Pro Tyr Glu Ile Trp Val Glu Ala Thr Asn Arg Leu Gly Ser Ala Arg 215 Ser Asp Val Leu Thr Leu Asp Val Leu Asp Val Val Thr Thr Asp Pro Pro Pro Asp Val His Val Ser Arg Val Gly Gly Leu Glu Asp Gln Leu Ser Val Arg Trp Val Ser Pro Pro Ala Leu Lys Asp Phe Leu Phe Gln 260 265 Ala Lys Tyr Gln Ile Arg Tyr Arg Val Glu Asp Ser Val Asp Trp Lys 280 Val Val Asp Asp Val Ser Asn Gln Thr Ser Cys Arg Leu Ala Gly Leu 300 Lys Pro Gly Thr Val Tyr Phe Val Gln Val Arg Cys Asn Pro Phe Gly 315 Ile Tyr Gly Ser Lys Lys Ala Gly Ile Trp Ser Glu Trp Ser His Pro Thr Ala Ala Ser Thr Pro Arg Ser Glu Arg Pro Gly Pro Gly Gly Gly

95

336

Ser Phe Arg Leu Tyr Asp Gln Trp Arg Ala Trp Met Gln Lys Ser His

aaq acc cga aac cag gta gga aag ttg ggg gag gct tgc gtg ggg ggt

Lys Thr Arg Asn Gln Val Gly Lys Leu Gly Glu Ala Cys Val Gly Gly

384 aaa gga gca gag gaa gag aga gac ccg ggt gag cag cct cca caa cac Lys Gly Ala Glu Glu Glu Arg Asp Pro Gly Glu Gln Pro Pro Gln His 115 120 ege act ett ett tee aag eae agg aeg agg gga tee tge eet egg gea 432 Arg Thr Leu Leu Ser Lys His Arg Thr Arg Gly Ser Cys Pro Arg Ala 135 gac ggg gtg cgg cga gag gta agg ggg tct ggg tgagtggggc ctacagcagt 485 Asp Gly Val Arg Arg Glu Val Arg Gly Ser Gly ctagatgagg ccctttcccc tccttcggtg ttgctcaaag ggatctctta gtgctcattt 545 cacccactgc aaagagcccc aggttttact gcatcatcaa gttgctgaag ggtccaggct 605 taatgtggcc tcttttctgc cctcaggtcc tgccggctaa actctaagga taggccatcc 665 teetgetggg teagacetgg aggeteacet gaattggage ceetetgtae etatetggge 725 aacaaagaaa cctaccatga ggctggggca caatgagctc ccacaaccac agctttggtc 785 cacatgatgg tcacacttgg atatacccca gtgtgggtaa ggttggggta ttgcagggcc 845 938 aaaaaaaaaa aaaaaaaaaa aaa

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Ala Ser Thr Pro Arg Ser Glu Arg Pro Gly Pro Gly Gly Gly Val Cys
35 40 45

Glu Pro Arg Gly Glu Pro Ser Ser Gly Pro Val Arg Arg Glu Leu
50 55 60

Lys Gln Phe Leu Gly Trp Leu Lys Lys His Ala Tyr Cys Ser Asn Leu 65 70 75 80

Ser Phe Arg Leu Tyr Asp Gln Trp Arg Ala Trp Met Gln Lys Ser His 85 90 95

Lys Thr Arg Asn Gln Val Gly Lys Leu Gly Glu Ala Cys Val Gly Gly 100 105 Lys Gly Ala Glu Glu Glu Arg Asp Pro Gly Glu Gln Pro Pro Gln His Arg Thr Leu Leu Ser Lys His Arg Thr Arg Gly Ser Cys Pro Arg Ala 135 Asp Gly Val Arg Arg Glu Val Arg Gly Ser Gly 150 <210> 18 <211> 834 <212> DNA <213> Artificial Sequence <220> <221> CDS <222> (1)..(834) <220> <223> Description of Artificial Sequence: Nucleotide sequence of products generated by 5' RACE of brain cDNA using NR6 specific primers <400> 18 ccc acc ctt ctc atc ggc tcc tcc ctg caa gct acc tgc tct ata cat 48 Pro Thr Leu Leu Ile Gly Ser Ser Leu Gln Ala Thr Cys Ser Ile His 1 10 qqa qac aca cct qqq qcc acc qct qaq qqq ctc tac tqg acc ctc aat 96 Gly Asp Thr Pro Gly Ala Thr Ala Glu Gly Leu Tyr Trp Thr Leu Asn 20 ggt cgc cgc ctg ccc tct gag ctg tcc cgc ctc ctt aac acc tcc acc Gly Arg Arg Leu Pro Ser Glu Leu Ser Arg Leu Leu Asn Thr Ser Thr 35 ctg gcc ctg gcc ctg gct aac ctt aat ggg tcc agg cag tca gga 192 Leu Ala Leu Ala Leu Ala Asn Leu Asn Gly Ser Arg Gln Gln Ser Gly 50 55 gac aat ctg gtg tgt cac gcc cga gac ggc agc att ctg gct ggc tcc 240 Asp Asn Leu Val Cys His Ala Arg Asp Gly Ser Ile Leu Ala Gly Ser 65 70 288 tgc ctc tat gtt ggc ttg ccc cct gag aag ccc ttt aac atc agc tgc Cys Leu Tyr Val Gly Leu Pro Pro Glu Lys Pro Phe Asn Ile Ser Cys 336 tgg tcc cgg aac atg aag gat ctc acg tgc cgc tgg aca ccg ggt gca Trp Ser Arg Asn Met Lys Asp Leu Thr Cys Arg Trp Thr Pro Gly Ala 105 100

cac ggg gag aca tto tta cat acc aac tac too cto aag tac aag ctg

His	Gly	Glu 115	Thr	Phe	Leu	His	Thr 120	Asn	Tyr	Ser	Leu	Lys 125	Tyr	Lys	Leu	
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														cca Pro		576
														agt Ser		624
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														gtg Val		720
														aag Lys 255		768
														atc Ile		816
		aaa Lys 275														834
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Gly	Asp	Thr	Pro	Gly	Ala	Thr	Ala	Glu	Gly	Leu	Tyr	Trp	Thr	Leu	Asn	

20 25 30

Gly Arg Arg Leu Pro Ser Glu Leu Ser Arg Leu Leu Asn Thr Ser Thr Leu Ala Leu Ala Leu Ala Asn Leu Asn Gly Ser Arg Gln Gln Ser Gly Asp Asn Leu Val Cys His Ala Arg Asp Gly Ser Ile Leu Ala Gly Ser Cys Leu Tyr Val Gly Leu Pro Pro Glu Lys Pro Phe Asn Ile Ser Cys Trp Ser Arg Asn Met Lys Asp Leu Thr Cys Arg Trp Thr Pro Gly Ala 105 His Gly Glu Thr Phe Leu His Thr Asn Tyr Ser Leu Lys Tyr Lys Leu 120 Arg Trp Tyr Gly Gln Asp Asn Thr Cys Glu Glu Tyr His Thr Val Gly Pro His Ser Cys His Ile Pro Lys Asp Leu Ala Leu Phe Thr Pro Tyr 160 Glu Ile Trp Val Glu Ala Thr Asn Arg Leu Gly Ser Ala Arg Ser Asp 170 Val Leu Thr Leu Asp Val Leu Asp Val Val Thr Thr Asp Pro Pro Pro 180 Asp Val His Val Ser Arg Val Gly Gly Leu Glu Asp Gln Leu Ser Val Arg Trp Val Ser Pro Pro Ala Leu Lys Asp Phe Leu Phe Gln Ala Lys Tyr Gln Ile Arg Tyr Arg Val Glu Asp Ser Val Asp Trp Lys Val Val 230 235 Asp Asp Val Ser Asn Gln Thr Ser Cys Arg Leu Ala Gly Leu Lys Pro Gly Thr Val Tyr Phe Val Gln Val Arg Cys Asn Pro Phe Gly Ile Tyr 265 260 Gly Ser Lys Lys Ala Gly 275

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<211> 143

<212> DNA

<213> Artificial Sequence

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gcaactttca aactctctgg ggaaggaaga agggctgaaa gagg atg aac ggg ctc
                                                 Met Asn Gly Leu
                                                                   143
aga cac agc tgt aat cag ccc cca gga
Arg His Ser Cys Asn Gln Pro Pro Gly
                     10
<210> 21
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<212> PRT
<213> Artificial Sequence
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by Nucleotide sequence unique to 5' RACE of brain cDNA
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<210> 22
<211> 1930
<212> DNA
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qcaaqctacc tqctctatac atqqaqacac acctggggcc accgctgagg ggctctactg 360
qacceteaat ggtegeegee tgeeetetga getgteeege eteettaaca eeteeaceet 420
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<211> 560

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR product for human NR6

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tcc aac ctc agc ttc cgc ctc tac gac cag tgg cga gcc tgg atg cag 960 Ser Asn Leu Ser Phe Arg Leu Tyr Asp Gln Trp Arg Ala Trp Met Gln 310 315 aag tcg cac aag acc cgc aac cag cac agg acg agg gga tcc tgc cct 1008 Lys Ser His Lys Thr Arg Asn Gln His Arg Thr Arg Gly Ser Cys Pro 325 330 1050 cgg gca gac ggg gca cgg cga gag gtc ctg cca gat aag ctg Arg Ala Asp Gly Ala Arg Arg Glu Val Leu Pro Asp Lys Leu 345 taggggctca ggccaccctc cctgccacgt ggagacgcag aggccgaacc caaactgggg 1110 ccacctctgt accctcactt cagggcacct gagcccctca gcaggagctg gggtggcccc 1170 tgagetecaa eggeeataac agetetgaet eecaegtgag geeaeetttg ggtgeaeeee 1230 agtgggtgtg tgtgtgtgtg tgagggttgg ttgagttgcc tagaacccct gccagggctg 1290 ggggtgagaa ggggagtcat tactccccat tacctagggc ccctccaaaa gagtcctttt 1350 1391 aaataaatga gctatttagg tgcaaaaaaa aaaaaaaaa a <210> 25

<211> 350

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: Haemopoietin receptor

<400> 25

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Arg Ser Gly Asp Asn Leu Val Cys His Ala Arg Asp Gly Ser Ile Leu 35 40 45

Ala Gly Ser Cys Leu Tyr Val Gly Leu Pro Pro Glu Lys Pro Val Asn 50 55 60

Ile Ser Cys Trp Ser Lys Asn Met Lys Asp Leu Thr Cys Arg Trp Thr 65 70 75 80

Pro Gly Ala His Gly Glu Thr Phe Leu His Thr Asn Tyr Ser Leu Lys
85 90 95

Tyr Lys Leu Arg Trp Tyr Gly Gln Asp Asn Thr Cys Glu Glu Tyr His
100 105 110

Thr Val Gly Pro His Ser Cys His Ile Pro Lys Asp Leu Ala Leu Phe 115 120 125

Thr Pro Tyr Glu Ile Trp Val Glu Ala Thr Asn Arg Leu Gly Ser Ala 130 135 Arg Ser Asp Val Leu Thr Leu Asp Ile Leu Asp Val Val Thr Thr Asp 150 155 Pro Pro Pro Asp Val His Val Ser Arg Val Gly Gly Leu Glu Asp Gln Leu Ser Val Arg Trp Val Ser Pro Pro Ala Leu Lys Asp Phe Leu Phe 185 Gln Ala Lys Tyr Gln Ile Arg Tyr Arg Val Glu Asp Ser Val Asp Trp Lys Val Val Asp Asp Val Ser Asn Gln Thr Ser Cys Arg Leu Ala Gly Leu Lys Pro Gly Thr Val Tyr Phe Val Gln Val Arg Cys Asn Pro Phe 230 235 Gly Ile Tyr Gly Ser Lys Lys Ala Gly Ile Trp Ser Glu Trp Ser His Pro Thr Ala Ala Ser Thr Pro Arg Ser Glu Arg Pro Gly Pro Gly Gly 265 Gly Ala Cys Glu Pro Arg Gly Glu Pro Ser Ser Gly Pro Val Arg 280 Arg Glu Leu Lys Gln Phe Leu Gly Trp Leu Lys Lys His Ala Tyr Cys 295 Ser Asn Leu Ser Phe Arg Leu Tyr Asp Gln Trp Arg Ala Trp Met Gln Lys Ser His Lys Thr Arg Asn Gln His Arg Thr Arg Gly Ser Cys Pro 330

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<211> 24

<212> DNA

<213> Artificial Sequence

340

<220>

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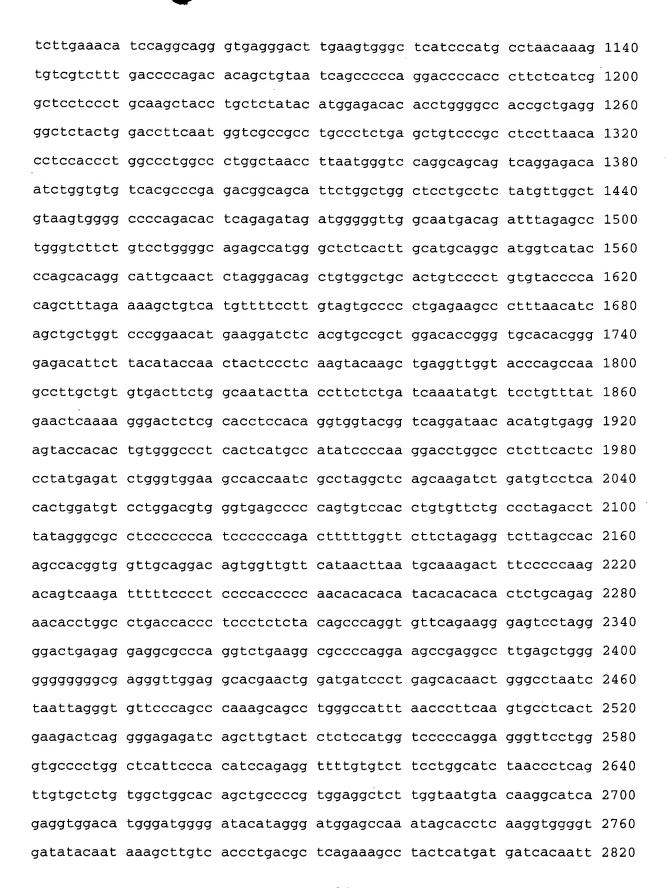
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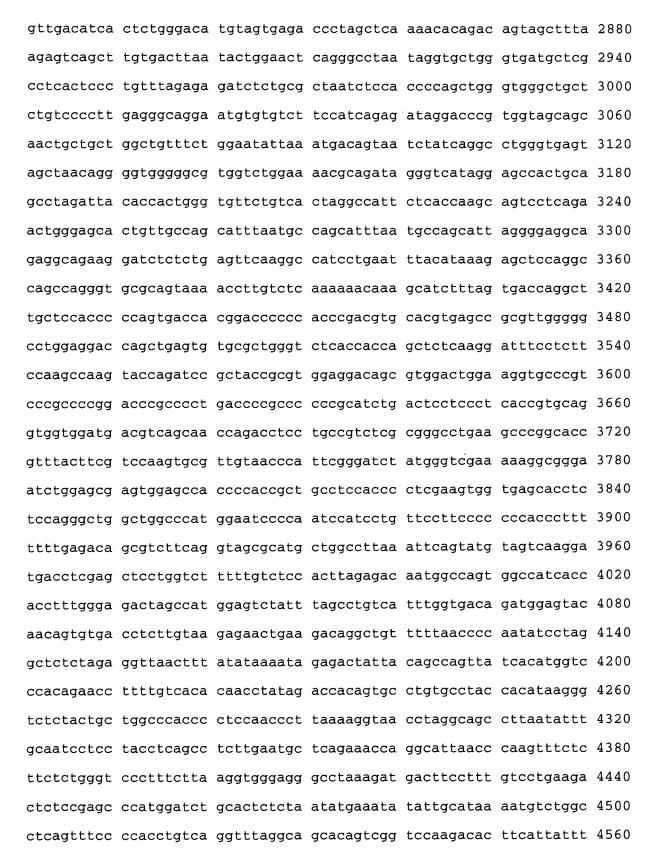
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tgtgagacag cttggtgggt aaggggcact tgcctccaat caagatgacc tcagccccat 180
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gctccaatgt gcacacacac agggagacat aatcaattaa taggatgtat ttgcttagat 300
ttgagtaggc atttatgact gatgttttaa aatttttatt tgattttatg aaaatatacc 360
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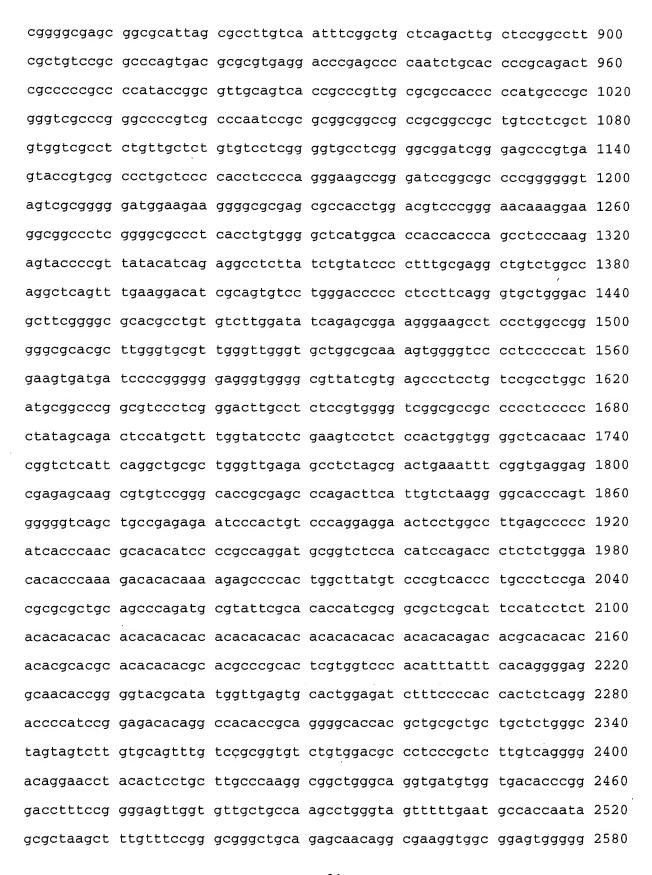
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His Gly Asp Thr Pro Gly Ala Thr Ala Glu Gly Leu Tyr Trp Thr Phe
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Asn Gly Arg Arg Leu Pro Ser Glu Leu Ser Arg Leu Leu Asn Thr Ser
Thr Leu Ala Leu Ala Leu Ala Asn Leu Asn Gly Ser Arg Gln Gln Ser
Gly Asp Asn Leu Val Cys His Ala Arg Asp Gly Ser Ile Leu Ala Gly
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<211> 73
<212> DNA
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ctgttcatcc tag
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<213> Artificial Sequence

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21

<210> 42

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629

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gtgcacccca gtgggtgtgt gtgtgtgt gagggttggt tgagttgcct agaacccctg 2015
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<223> Description of Unknown Organism: Amino Acid Sequence of NR6

<400> 44

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Ala Gly Ser Gly Ala His Thr Ala Val Ile Ser Pro Gln Asp Pro Thr 35 40 45

Leu Leu Ile Gly Ser Ser Leu Leu Ala Thr Cys Ser Val His Gly Asp 50 55 60

Pro Pro Gly Ala Thr Ala Glu Gly Leu Tyr Trp Thr Leu Asn Gly Arg
65 70 75 80

Arg Leu Pro Pro Glu Leu Ser Arg Val Leu Asn Ala Ser Thr Leu Ala 85 90 95

Leu Ala Leu Ala Asn Leu Asn Gly Ser Arg Gln Arg Ser Gly Asp Asn 100 105 110

Leu Val Cys His Ala Arg Asp Gly Ser Ile Leu Ala Gly Ser Cys Leu 115 120 125

<210> 44

<211> 421

<212> PRT

<213> Unknown

Tyr Val Gly Leu Pro Pro Glu Lys Pro Val Asn Ile Ser Cys Trp Ser 130 135 Lys Asn Met Lys Asp Leu Thr Cys Arg Trp Thr Pro Gly Ala His Gly 155 Glu Thr Phe Leu His Thr Asn Tyr Ser Leu Lys Tyr Lys Leu Arg Trp Tyr Gly Gln Asp Asn Thr Cys Glu Glu Tyr His Thr Val Gly Pro His Ser Cys His Ile Pro Lys Asp Leu Ala Leu Phe Thr Pro Tyr Glu Ile Trp Val Glu Ala Thr Asn Arg Leu Gly Ser Ala Arg Ser Asp Val Leu Thr Leu Asp Ile Leu Asp Val Val Thr Thr Asp Pro Pro Pro Asp Val 230 235 His Val Ser Arg Val Gly Gly Leu Glu Asp Gln Leu Ser Val Arg Trp Val Ser Pro Pro Ala Leu Lys Asp Phe Leu Phe Gln Ala Lys Tyr Gln 265 Ile Arg Tyr Arg Val Glu Asp Ser Val Asp Trp Lys Val Val Asp Asp Val Ser Asn Gln Thr Ser Cys Arg Leu Ala Gly Leu Lys Pro Gly Thr Val Tyr Phe Val Gln Val Arg Cys Asn Pro Phe Gly Ile Tyr Gly Ser Lys Lys Ala Gly Ile Trp Ser Glu Trp Ser His Pro Thr Ala Ala Ser Thr Pro Arg Ser Glu Arg Pro Gly Pro Gly Gly Gly Ala Cys Glu Pro Arg Gly Gly Glu Pro Ser Ser Gly Pro Val Arg Arg Glu Leu Lys Gln 360 Phe Leu Gly Trp Leu Lys Lys His Ala Tyr Cys Ser Asn Leu Ser Phe 375 Arg Leu Tyr Asp Gln Trp Arg Ala Trp Met Gln Lys Ser His Lys Thr Arg Asn Gln Asp Glu Gly Ile Leu Pro Ser Gly Arg Arg Gly Thr Ala 410 Arg Gly Pro Ala Arg 420

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<210> 46
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<212> DNA
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<210> 48
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<212> DNA
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<220>
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<210> 50
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<212> DNA
<213> Artificial Sequence
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